In regard to application # 08 986,606; Dear Avis M. Deverport, Primary gramine #5 Deals 1024; Dan writing to rebet the criticism that resulted en your rejection of my claims: 1. The time frames for thesportent application relative to previous patents and petentapplicutions are on follows: U.S. Patent 5, 298,604, Mu 29'84 ded with the protein N-torming amino acid sequence & Redge and Sloans, cytokine Jon 1996 - nonapeptide - Notermend sequence of ANU Prossessesson 10 Z of ants tumor actionly of the cytokene C Slvane - US patent application on pharmacologically actual and the artistic activity of the artistic artistics. appliation 08/641,905 beled May 2, 1996. this application is not being neverel; see

Aloano 408/700,606 Keney 12/8/97 enclosed letter and: = enclosed reprint Slove and Davis Jan 1796 Tumo (cergeting (1996) 2, 322-326 the Sloane potent application of 12/08/97 # 08/986,606 deals with the pharmaeologically ants turnor activity of the 16 amero acid N-terminal pertido-This data has not been pullished the 50% activity of the 16 amus acid peptids es a great advonce overthe 10% activity of the monopey ticle Prior ant con notanticipate the very large in crease in planmoculogenly antitumor activity of the 16 amino acid pentide over that of the 9 americ acid pertide. Itisposalle that there ould be no increase in activity. thus the one year priis date does outapply

Sloane-108/986,600 filing date 108/986,600 the determination of the N-terminal amino and sequence was thoroughly desembed in publication Ridgeard Sloans, Cytokers (1976) 8, pp.15 and documented in U.S. Patent #5,298,604 date Mar 29, 1994 the syntheses of amino acid sequences are routinely performed and is well known throughout the scientific Community, thereare many chemical companies that employ the expertise to provide sefrethete peptedes world wide. We have used one such com pany, Research Genetics of Hentsouthe, alaboma. the use of the 16 amero acid populate is well delineated in claim 1. "The use of the 16h-

PY Sloon #08/986,606 filing date 12/08/97 representing the partial N-terminal ameno sequenced The antimerplastic proteir (& NVD) åsæpharmælegteally antitumoragest which kells only human tumo cello (using The human breast tumor cell line asa model)" We century con delete the parenthases We had previously determined that a very diverso number of human tumor colls were fulled by the cotokup (ANUR) in cettro and in OVIVO. I. D. D. a, Sloare et al Brochamical. (1986) 234) Pp355-362, and Slovere and Davis (1996) Tumor Targeting 2, 322-326.

Ploore 08/986 606 filing date 12/08/97 We previously determined that a diverse number of human turns Cell lives were specifically killed by ANUP which included, breast, lung, bladder, servix, melan oma, and panerers. Includ Sloare and Davis Huma Torgeting (1996) 2322 826: showed that the protein was active in VIVO as a pharmacologically active antitumor protein the protein ANUP coursel the regression of both cervical tums cell andlarynged tumor cell (each of human oregin when injected in mude mice. Since the 16 amino Nterminal exitope of ANUP represent the artiveantitumor portain of ANUP

08/986,606) filere date 12/6/97 then the use of the pertide by parenteral injection as used in studies with the protein would La indicated. Includ U.S. Patent usual on the antinoplastic protein (ANUP) - U.S. Partent #5,298,604 isrued mon 29, 1994 has recorded such a uso sal patent Column 4 cinele "Biological Properties of ANUP" 11 this antitums chemotherapartie gest to treat human neoplastio diseaso. Ris view of of potentialuse of ANUPIN Concertherapy is justifiedly thefollowing a propos mentagie to humancels; LA separatially inhabits only, human cancerdel lines CANUP Cours regression

Cloone 08/986,606; filingdate 12/8/87 of human tumor cell lives implanted in mud, mice, " flus claims pand 3 for the use of the Ameno and Peptielo does indeed set fath steps in thouse of che pertale es an antitumor agent By parenteral injections as shown in the U.S. Patente: " of Sloons \$5,296,604 date Mar 29,1894 and publication of Sloans and Davis Termor targeting (1996) 2,322-326the potential use of the L-16 amenacid peptade is clearly indicated as shown by above references and clear demonstration of the effect

Slome 08/986,604 Bluegand 12/8/97 18 of human tumor cells complanted ingetion. Claim 3 relates to the action two of the 16 amino acid pay trob as clearly delireated in the "Description of the Preferred Embodiment." also similar to the present application, equipment activity was noted between the new Compoundand The naturally-Occurring Compounds. In his opinion judge Rich states:

Sloane 08/968,004-filing date 12/8/97 1) where no particular utility is recited for a Compound, evidence of any utility is Cedequate Cating Blicker Trevez 112 USPQ 472; 21 tests evidencing pharmaco. logical activity may manifesta practical detelter even though they may not establish a specific therapeutic 3) Topice tes crucial to provide researchers with an incentive to disclose pharmacological activity in as many compounds as possibly we conclude that adequate proof of any such activity constitutes

Ilsons 08/986, 604-filingdett 12/8/97 a showing of practical utility and 4) "the controlling point is...
evidence of pharmacological
activity." If lam unclear at any point please coll me at 901-754-7848

Sincerely Mathan Sloone